

Application No. 10/711,988
Docket No. A4-1854
Amendment dated October 26, 2005
Reply to Office Action of July 26, 2005

Amendments to the Specification:

Please replace paragraph [Para 16] with the following amended paragraph:

Figure 1 represents an electronic micrometer system that includes a portable unit placed on a cylindrical body for sensing the diameter and diametrical variations of the body.

Please add the following new paragraph [Para 16.1] after paragraph [para 16]:

Figure 2 is an enlarged view of the portable unit of Figure 1.

Please replace paragraph [Para 19] with the following amended paragraph:

The housing 14 is preferably equipped with four supports for supporting the housing 14 on the upper arcuate surface of a cylindrical roll 40, as depicted in Figures 1 and 2. ~~Figure 1.~~ To enable the unit 12 to skate the roll 40 in order to measure variations in the diameter (i.e., profile) of the roll 40 along its length, the means of support are preferably wheels 30. The wheels 30 are shown as being

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rotatably supported by bearings 34 so that the axis of rotation 42 ~~rotation~~ of each wheel 30 is substantially vertical when supporting the housing 14, i.e., vertical to the floor 20 of the housing 14. This orientation allows for the use of wheels 30 of small diameter, which more positively position the housing 14 on the upper surface of the roll 40 and therefore promote the accuracy of the unit 12. As depicted, the wheels 30 are sufficiently small so that their diameters are less than the diameters of the bearings 34 supporting them. The housing 14 is preferably equipped with an encoder (not shown) to measure the distance traveled by the housing 14 via sensing rotation of one of the wheels 30. The housing 14, arm 16 and wheels 30 are preferably configured to allow the unit 12 to be used for a wide range of roll diameters.